BOTANY

UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-6

APPROVED DECEMBER 1961

LEO J. HICKEY
DIVISION OF PALEOBOTANY
SMITHSONIAN INSTITUTION
WASHINGTON, D. C. 20560

June 29 - 127 miles
Wilm. to 1014

June 30 - 1014 to Beacon Motel,
Nags Head, N.C.
360 mi
left DC at 1115 after
Mass and lunch,
arrived at Beacon at
1015.

July 1 - Nags Head to
Hatteras (Sea Gull
Motel)
180 miles
Ferry at Coquina Beach
Ferry at Cedar Island
Weigh Bass. Mon.

July 2, At Hatteras
37 mi

July 3, To Beaufort, N.C.
78 miles

July 4, In Beaufort N.C.
37 mi

July 5 - Bryant to Statesville
327 mi.

July 6 - Martha's wedding
Statesville to Asheville
107 mi

July 7 - Asheville to ~~118 mi~~ 118 mi
Pisgah Gatlinburg
added oil

July 8 - ~~118 miles~~ 74 mi. Cades Cove

July 9. Chimney tops
15 miles

July 10 (~~add 7~~) Gatlinburg to Asheville
119 mi

July 11 Asheville to Blowing Rock
117 mi

July 12 Blowing Rock to Bedford Va.
242. mi

July 13 Bedford to DC added oil at
~~240 mi~~ 23,512

Ipomea sagittata Hallenthas Fam
Monarda punctata Obscure.
Borrichia frutescens.
Ala of Cyp.
Hibiscus moscheutos

July 5 Beaufort to Statesville
323 mi

Blue Ridge Phlox & Shrubs

✓ Houstonia purpurea
✓ Daucus carota
✓ Verbascum thapsi
✓ chrysanthemum leuc.

~~Hypochoeris radicata~~ radicata
Cats Ear

Coreopsis major

~~Gaillardia~~ Rudbeckia virginiana
~~Gaillardia aristata~~ Houstonia Caer.
Linethera biennis

Amaranthus Muricatus
"Fly prism"

Physostegia virginiana False Dragonhead
Hedeoma Loreustifolia Lythrum salicaria

Melissa Calif.
Physo. mac
Salix alba
Hypericum punctatum
Rudbeckia

7/7/68

7/7/68.

B. B. Rhee 18. 4-sh.

Silene (red flowering)

~~Lobelia Cardinalis~~

Asyneuma angustifolium

Potentilla canadensis

Rudbeckia hirta

Zizia aurea

Dunalia lonicera v. Bush type

Rhododendron Calendulaceum

R. nudiflorum

Aquilegia Canadensis

Leather flower Clematis viorna

Potentilla tridentata

Heracium floribundum

Hypericum dissimulatum
(page 60's in leaves
4th stem)

Melampyrum lineare

Achillea millefolia
Smooth Hawkweed
Rhexia virginica pl. red 4th
3 palm. lvs.

Large Common Milkweed
Ox Eye
~~Ruby Devil Hieracium pral.~~

✓ Penstemon Calycosus.
~~Senecio robinsii~~
Orchis psychodes
~~Borage 4th. Fls~~

~~0~~ ~~5~~ ~~5~~ ~~5~~ (2 2)
~~4th.~~
~~Grey~~
~~Hairy~~

Saxifraga micrantha ~~stolonifera~~
~~basalbo~~

Viola pallens.
Polygonum scandens
Rhododendron Catawbiense
Hypopitys Carolinianus
Erigeron pulcellus

Cades Cove 7/8/68

Dock Medicago
~~Yellow~~ White Trifolium Clover
Plantago lanceolata
Plantago major

All composite heavy slim yg lvs.
Taraxacum
Senecio Canadensis

Chimney Tops 7/9/62

Dicksonia Cylindrica

Road to Cherokee Orchard 7/10

mountain anemone
(anemone lancifolia)

butterfly weed

rudbeckia hirta

elderberry

Gyanthemum tenuifolium

Cimicifuga racemosa
(black cohosh)

Monarda didyma

Geum canadense

Hypoxis hirsuta

Commelina virginica

" communis

7/10 cnta

Hypericum punctatum

CA E O G A
5 5 5 3

all pl.
bar beard

Hydrophyllum canadense.

N.C. Outer Banks. 7/3/68

Ipomea sagittata Arrow-leaved morning glory

Monarda punctata Dotted Monarda
Borrichia frutescens Sea Ox-Eye
Hydrocotyle umbellata Water Pennywort

N.C Coastal Swamps 7/5/68

Hibiscus moscheutos Rose Mallow

Blue Ridge Pkwy Sodd's Gap 7/7/68

Houstonia caerulea Quaker-Ladies
H. purpurea
Daucus Carrota Wild Carrot.
~~Heracleum sp~~
Zinnea angusta Golden Alexanders
Verbascum thapsus Common Mullein
Penstemon calycosus
Chrysanthemum leucanthemum Ox-Eye Daisy

7/11 Blue R. Parkway nr Jackrabbit

Phlox divaricata
Silene virginica
Alum Root (Sad)
Hydrangea arborescens
Stevia Small

Turks Cap Lily
Brassica nigra
Erythronium
Galinsoga ciliata
Senecio aureus
Prunella vulgaris.
Xanthus canadensis
Lespedeza virg.
Lobelia spicata
Eupatorium perfoliatum
Coreopsis tripteris
Melilotus alba.
Potentilla recta
Rumex obtusifolius
Hieracium pilosella

7/12 B. B. Rhus.
N. of B. R. N. C.

Coreopsis lanceolata

B B Bluff. 7/12
n by Vic Lane

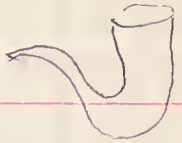
Asclepias purpurascens.
Physalacca amaranta
Cichorium intybus

B B Bluff Vic 7/12

Solidago canadensis
stems not downy near top

Echium vulgare
Lilium canadense
Saponaria officinalis
Rhus typhina
Bastard broadleaf

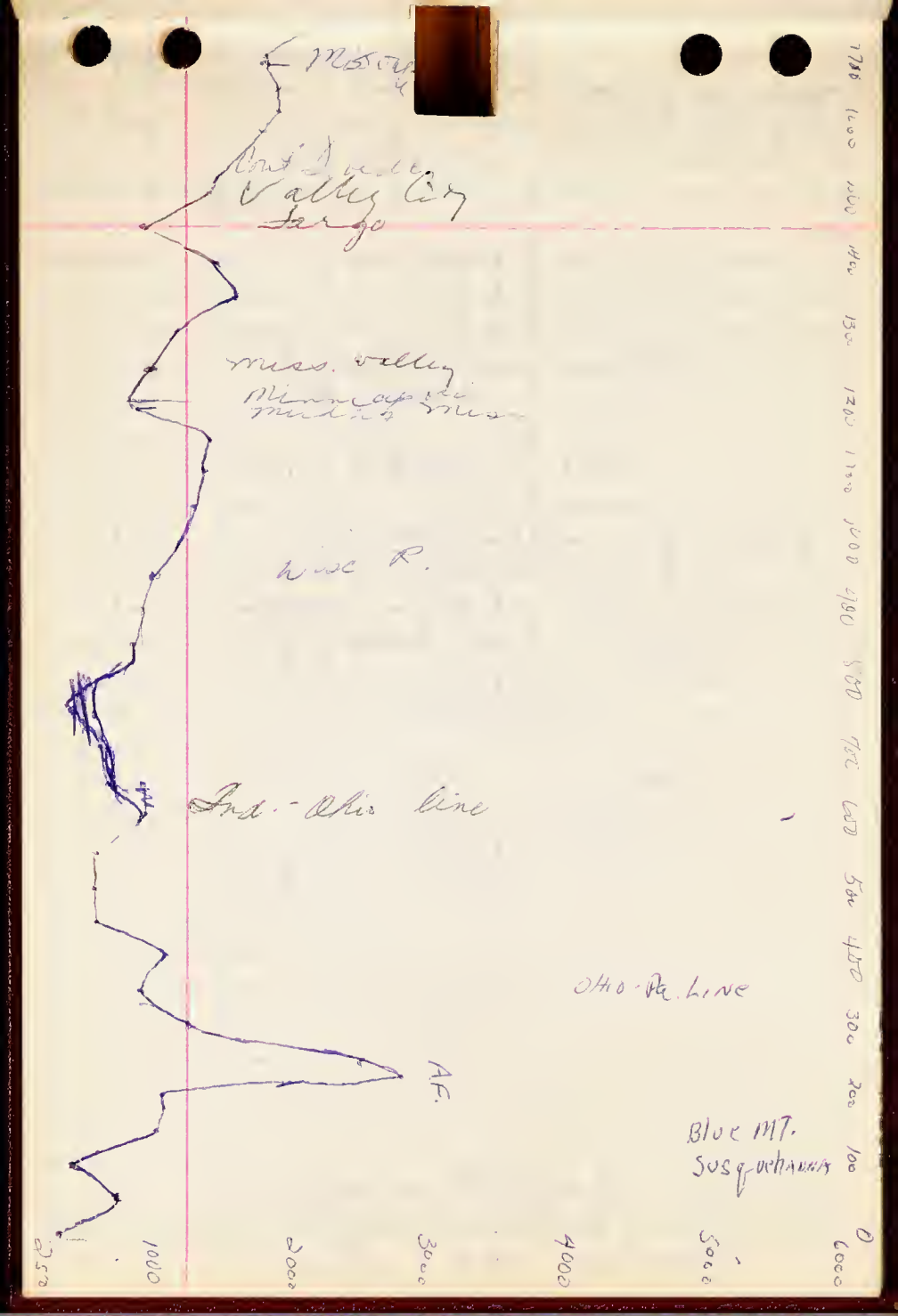
Buckeye Trail



Aristolochia

Sug. Map.
Yel. Birch
Sassafras
Larch
Ash
Pitch
W. Pine
Wh. Ash
Bl. Cherry
Red Oak
Red Berry
Hickory
~~Black Oak~~
Hemlock
Silver Bl.
Yellow Birch
~~Lobelia spicata~~

974 - 3763


Red River Valley City Fargo
Miss. Valley Minneapolis
Miss R.
Ind.-Ohio line
Ohio-Pa. Line
Blue MT.
Susquehanna
AF.
0
1000
2000
3000
4000
5000
6000
2750
700
1000
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100

March 16, 1978

Far Fan Beach Canal Zone

Pelliciera

Seedlings

Leaves asymmetrical w
gl on serrations.

Serrations are salty on
the bud.

Barry Hammel # 1979

Serrated edge enrolled
to inside of bud.
Some leaves in inside
of Bud are Symm.
Outer edge of most leaves
not developed

Upper edge of Mangrove
Swamp. Found.
Sandy Shelly Bank
Buttress roots

Barry # 1980

Dillenia

fine in Mangrove

Rizophora Mangale and
Lagunculoria or outer
edge of Swamp

CZ. March 16, 1978

Then Rhizophora
& Then Pelliciera
in highest part
coming up in the
shade of Rhizophora

Pelliciera
Early ont. material
Hickey # 2842
Hammel # 1979

Davallia

Hickey # 2843
Hammel # 1980

Fm sta 6 M Fds. White
in Mangrove tidal flat
W end of Gatun Ferry
Bridge
N side of Highway
Balboa CZ.

Fam Hedraeum.

Benthamia on Banks Expil ab 1350 - endemic pop.

Fam Fam Cor
Hemitelia petiolata Zeteb T. 900

Gleichenia
Dichranopteris pectinata
Clarke Cliff n. [illegible]

Almaea
Cellia scirpi mus a.mal Cyst
Pellaea leaf Schizomycetes

Ste[illegible]
[illegible] petiata

Sy[illegible]
[illegible] - [illegible]

Selaginella - Apiba coll Ecuador [illegible]

Selaginellaceae
[illegible] - Guayaquil [illegible]

Myristica dai
Verdo empl...

Lychnis dai
...
Capsule – Con...

Flammula ...
Semen ...
Usus: ...
Habit...
Noxa ...
...
Nybrina.

Amygdala ...
...
Amygdalæ Mdulæ 3ss

Nebulosa radix
...

March 18

Cincinnati

AT ZETCK [illegible] M.

[illegible]

A ZETCK S [illegible] M.

[illegible]

2/26/79

1979

5000 Volcan Baru.
Myotis.
1/2 way to summit on road.

5001 Alnus
tree 25' sterile
1/2 way to summit on road.

5002 Brexia
roadside
1/2 way to summit on roadside.

5003

4/ Top
Km. 3345 2/26/79

5004 Coriaria
Shrub on road side
1/2 way to Top of Volcan Baru

5005 2/26/79
Bomarea
Summit of V. Baru on
ridge Befaria & thistle
Rubbly andesitic or dacitic
soil.

Summit at
3345.0 fm

5006 Befaria
Wind swept summit of
V. Baru on andesitic or
dacitic rubble.
Shrub 2 ft tall
others to 15'

5007 Rubiaceous
ON Bare Slope below
SUMMIT.

2/26/79

Km 3345.1

5008 Vine TWINING IN Befaria 20'

Km.3345.4

5009 5009 Geranium under Befaria & THEACEAE prob TERN w Gallium

5010 THEACEAE Cleyera ? forms trees up TO 20' leaves from SERRAT TO ENTIRE.

5011 SMALL leafed ~~THEACEAE~~ ERICACEAE. TREE TO 10' NEW growth reddis green VACCINIUM.

2/26/79

5012 Vaccinium Shrub in drainage way 70 8'

5013

5014 CAVendishia 25' Last Km 3345.4
In Saddle

2/26/79

5015 Corlariaceae 1

3348.5
middle elev forest
along roadside

5016 Gallium. 3350;1

5017 Fucsia Shrub.
3½ - 4½'

5018 Lobeliaceous shrub
milky juice

2/26/79

5019 Rhamnaceae 3350.9
Small tree 40'
in forest.

5020 Quercus sieberti
3351.3
TREES TO 100'
white platey BARK
Like white oak.

5021 Quercus ocoya Km 3351.8
associated w/ Q. sieberti

5022 Symplocos sp. Km 3351.8
Small tree rubbery
Trees to 25'

2/26/79

5023 NASTURTIUM Km 3351.9
VINE
Scrambling on road side

5024 ~~Cucurbitaceae~~ Pickle.
Km. 3353.4
Eliminated.

5025 Quercus Km 3353.4
lower elevation.
Trees to 5:1 forming
canopy

2/26/79

Km, 3353.6

5026 Theaceaeous Tree 50
lvs dull green
in layers.
in OAK Forest

Km. 3353.8

5027 Weinmannia or Sapindaceae
Tree To 30' with. 8" dbh
Flowers Fruit. New leaves.
Occurs w Quercus & Theac.

5028 Weinmannia Km
Another Tree seed.

Woods of Weinmannia
w Ternstroemia.

5029 Quercus 3355.7

Small Tree 50'
in a group
below gate getting
into cleared
land

2/26/79

5030 Alnus cones w/ possible seed.
Associated w/ Weinmannia
Cleyera at 1 km. 3353,8

Enllat 3366.8
in Bogueta

2

2/27/79.

TRAIL TO Cerro Pate Macho

5031 Gunnera Elev 1500 m.
Sunny bank of Rocky RAVINE in woods ~~If head of~~ R. abt 200 m. beyond end of road.

Picture.

TRAIL to

5032 Ouratia ?

Tree by edge of Field. 30'

Elev 1650 m.

Abt. 1/2 mi in.
Large ~~Flat~~ opening in Forest w/ Oreomunnea
Young foliage w Zeeth.
even Compd. pinn. lfs.
6 pellucid resin spots

2/22/77

These are ~~where~~ same as Bob's seedlings.
seeding prolifically into opening.

Most young lvs. toothed
Forms lower Zone below Weinmannia

5033 Weinmannia seedlings growing in tree stump in cleared field in stream valley
starts on mossy wet logs as semi-epiphyte.

elev. 1700 m

5034 Cornus ! Fallen Tree on stream abt 1/2 way to TF
looks like C. Nebrascensis

elev 1800 m

2/27/79

5035 Smilacina 800' below
ridge top in
misty forest.
by trail side.

elev. 1900 m.

Ridge Top cl fin
forest.

5036 WEINMANNIA simple cloud Fo
leafed form.

Tree on fog swept
Ridge crest 40'

elev. 2100 m

5037 WEINMANNIA Compl.
Suckers & regrowth fro
Broken Tree on
A.T.
beside 5036

elev 2100 m.

2/27/79

5039 WEINMANNIA ENT.
Seedling.

Ridge top Cloud
Forest 1/6 mile of
5036.
elev 2100 m

Px 18. Araliaceae.
Tree 60'

IN Cloud forest.

LOTS of Araliaceae
Trees
? ~~Palm~~ PALM. Comp'd. L.

Bamboo'd grass.
Ferns
MELASTOMATACEAE
Bessleria
CYCLANTHACEAE.
Smilacina.
MONSTERA

Px 19 Clusia IN Flower.
px 20 MONSTERA

5039.

2/27/79.

5039 Monimiaceae

Cloud forest on ridge w/ Clusiaceae etc.

elev. 2100 m.

5040 1/2 mile from Cars on trail to top of ridge Dreamunnea seedlings.

All w Teeth

mature foliage w/ ent margins

1700m.

~~elev.~~

2/27/79. TRAIL TO Cerro Pate Macho
App. 2 mi from end of
road on S. side of
Rio Palo Alto TO TOP of
PEAK
Coordinates 45, 4 - 73, 5
on USArmy Quad
Boquete 1:50,000

~~Lowest~~ Forest abt 1600 - 1700
m.
W. Oreomunnea oi impt
in Palo Alto Drainage.

Pinn. Compl. weinmannia
1700 - 2000 m.
w/ clusiaceae + x
Araliaceae
becoming more impt

2/28/78

Fortuna Valley
S. Side.
Elev 1000 m-

Oreomunnea in reproduction
in woods. all toothed
leaves

5041 Oreomunnea leaves from
seedling small saps
reprod. in group
under Araliaceae
& others.

5042 Podocarpus prob. new for.
Panama

Bob says rev. in Journ.
Arnold Arb.

Tree Branches pushed
over by roadside.

5043. Proteaceae Grevillea
seedling.
Wet woods on slope
w/ Tree Ferns
Oreomunnea
LARGE ZAMIA
Lvs 3' Pinnae 10'
Trunk 5" dia 2½' Tall

2/28/74.

La Fortuna
Valley of Rio Pornito

Clusia
Melastomes
Caulophyllum
Tree ferns.
Ficus

5044 Oreomunnea sapling
12' new foliage
in forest
2/3 to top of
slope

5045 CATKINS under group of
Oreomunnea trees on
ridge D.F. On spec 8
fronded palm, forming a
pure plant. Grass height
110

5046 Selaginella epiphyte on
tree trunk in dense
sloping woods. Some
Oreomunnea + Palms near.

~~5047~~

Cerro PUNTA 3/1/79

WEINMANNIA
Alder.
Phytolacca - Poke.

Melastomes

9-11 Compd (Pal/m) lf.
Araliad.
CLUSIACEAE

PINN compd. lf - cven)
CRASP

R. sieberTii Toward
Top of slope

STREAM Valley Filled w/
alders

5047 Wood from Discarded toys in RX ing by road side Toys 4' in diameter. End of LA FORTUNA

Above. CERRO PUNTA. 3/1/79
town elev 1200 - 1400 m.
MANY Alders IN STREAM VALLEY
WEINMANNIA pinn. Robus.

5048 Tree 30' from Sucker Shoot
Acropetalar gld.
IN BASE Berry PASTURE.
ONE of PRINCIPAL Trees
of WET PASTURE. w WEINMANNIA
AS AN ASSOCIATE.

5049 Shrub to 4' at base
of Tree stump IN
open PASTURE
Ericads, Ferns, Lycopod.

5050 R. sieberii from large
Trees at top
130' Tall. White Barely
BARK

NEAR TOP of Trail.

Ent. & Compd.

Weinmannia growing

together

New Roll

figs. 2.

Oaks

Q. Sieberti

on slope

figs. 4-7

Weinmannia

3/2/79
El Cope

Salvagesia

5051 LJH R.L. Dressler.
ZAMIA pseudoparisitica
From downed tree.
about ~~1/4 mi~~ N. of
Gap at El Cope

5052 Epiphytic Ericad in
Lecythidaceous Tree.
downed on Trail.

5053 Nicotiana tabacum - cultivated
plant, 80 Blake Rd, Hamden, CT.
11/11/05 LJH. collector, determiner
Plant brought to lab - ESC 250
for ATOL grant.

El Cope' Forest

low gap MIST forest

Elev ca. 800 m.

TREES W/ MAINLY entire MARGINED LVS

PX 20 ATLATIC Slope forests. from El Cope'

Chespidesia cabbage leaf Trm.

5054

5055

5056

23512

232
242
117
119
15
77

799

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